

SECRET

PROPOSAL

MOBILE READY ROOM

F279-1020-1A

15 February 1965

SECRET

Mobile Ready Room

The Mobile Ready Room Van as shown on Drawing F279-1020-1A is a self-propelled vehicle intended for use as a dressing and ready room for the donning of full pressure suits, preflight and postflight check out and preoxygenation of pilots for high performance aircraft. This van also provides for maintenance, periodic inspection, testing and storage of full pressure suits and related equipment.

The vans are self-sufficient allowing operation in remote areas and incorporate connections for the use of auxiliary power and services when stationed at fixed bases.

Of particular importance is the capability of air transportation of the vans in C-130 type aircraft.

Insofar as is possible, readily available commercial components acceptable to the military are used.

The van specifications are as follows:

- 2 -

1. Body

Overall Length 20 Feet

Overall Width 7 Feet 6 Inches

Overall Height 8 Feet 9 Inches

Interior Length 25 Feet

Interior Width 7 Feet 2 Inches

Interior Height 6 Feet 4 Inches

Ground Clearance 9 Feet

Construction - Fiberglass body on truck chassis
by Dodge Division of Chrysler
Corporation

Axle - Heavy Duty Leaf Spring Suspension

Wheels - Dual Rear

Tire - 8x17.5, 6 Ply

Brakes - Hydraulic, Power Assisted

Battery - 12 Volt Heavy Duty

Insulation - 3 Inches Fiberglass All Around

Spare Tire and Carrier

The loaded weight and location of center of gravity will
be determined at final assembly.

All windows are green tinted safety plate glass. The
size and location of windows are shown on Drawing F279-1020-1A.

The power plant is a heavy duty 202 horsepower, premium high torque V-8 engine, 318.4 cubic inches displacement, overhead valves, dry type aircleaner, one quart replacement type oil filter, 35 AMP alternator.

The transmission is a loadflite automatic transmission and the vans are equipped with power steering.

2. Electrical Generator - The self-contained power source is a four cylinder gasoline driven unit producing 15 KW @ 240 Volt, 60 Cycle, 3 Phase. The unit is in an isolated compartment mounted on vibration dampners and is fitted with a hospital type muffler. The unit has a forced air cooling system and utilizes the van fuel supply (35 gallons). It is manufactured by the Onan Division of the Studebaker Corporation and is their model No. 15JC5DR.

3. Air Conditioner - The air conditioner is an Airflow Model SAC-5-9 rated nominally at five tons. It is for use in warm or cold climates. Operation is completely automatic after controls have been set. The unit is designed for:

1) Ventilating

2) Heating

3) Cooling

4) Dehumidifying

4. Pilot's Chair - There are two pilot's chairs furnished with the van. These are Barcalounger Model 2735-1-HD. It is a reclining chair, sturdily constructed for long wear and hard use. The upholstery is of the best quality Naugahyde.
5. Full Pressure Suit Ventilation - Each pilot's chair includes a ventilation system. The unit is integrated into a platform beneath the chair. It consists of a dry air pump and a mechanical refrigeration system. Each vent unit provides 15 CFM @ 15" H₂O backpressure at the suit vent fitting.
6. Pilot's Console and Suit Tester - Adjacent to each pilot's chair is a console which includes all the facilities of the DN70700-3 full pressure suit tester. This console also includes face heat, vent flow control, oxygen supply and intercom.
7. Test Stand and Vacuum Pump - The van includes a DN71800-4 test stand for personnel equipment hardware maintenance and check out. A vacuum pump is furnished to accommodate the test stand requirements.

- 5 -

8. Oxygen Supply - For purposes of prebreathing and testing an oxygen supply consisting of two 'K' type cylinders is installed at the rear of the van. The cylinders contain 224 cubic feet of free oxygen each. The cylinders can be recharged from a charging fitting located on the exterior of the van as shown on Drawing F279-1020-1A.
9. Storage - The van contains approximately 36 cubic feet of closed storage space for hardware, parts and tools. A suit work table is also included adjacent to the test stand. This work surface is approximately 2 feet wide x 7 feet long.
10. Lighting - Fluorescent fixtures sufficient to provide 50 foot candles of illumination are located throughout the van as shown on Drawing F279-1020-1A. Red lighting is provided for night vision.
11. Curtains - Curtains are provided on each window and across each end of the pilot's seating area to block outside light at and eliminate extraneous sunlight during daytime use.
12. Finish - The exterior of the van is finished in yellow (color No. 13538 per Federal Standard 595).

- 6 -

The interior is finished with light tone wood grain paneling on the walls, off-white acoustical material on the ceiling and heavy duty, non-skid, light gray, vinyl linoleum on the floor.

13. External Power - An external power connection is installed with a safety switch to change from external to generator power.

GFE Equipment Required for
Mobile Ready Room

Part Number F279-1020-1A

4 Each	-	C823A/A1C-10 Interphone Units
1 Each	-	LS184A/A1C-10 Loud Speaker Unit
1 Each	-	H157/A1C-10 Headset/Microphone
30 Foot	-	WM-85/U Cable
1 Each	-	M34/A1C-10 Microphone - Hand Held
3 Each	-	U94A/U Connectors

SPARE PARTS
FOR F279-1020-1A

25X1A

AIR CONDITIONER

Price Ea.

DN 72029-1	Drier, Filter Strainer	(1)
30-1	Valve, Thermostatic Expansion	(1)
31-1	Switch, High Pressure	(1)
32-1	Switch, Low Pressure	(1)
33-1	Switch, Condenser Fan	(1)
34-1	Thermostat	(1)
35-1	Humidistat	(1)
36-1	Contactor, Replacement	(1)
37-1	Motor, Condenser Fan	(1)
38-1	Air Filters	(6)
39-1	Belt-Evaporator Blower	(2)
40-1	Valve, Solenoid	(1)
41-1	Kit, Suction Valve	(1)
42-1	Vibration Eliminator-Suction	(1)
43-1	Vibration Eliminator-Discharge	(1)

AIR PUMP-VENT SYSTEM

DN 72052-1	Vanes	(8)
53-1	Bearings	(4)
54-1	Seals, Carbon Face	(4)

GENERATOR

166P245	Point Set	(2)
166P310	Condenser	(2)
122A185	Oil Filter Cart.	(3)
167-4	Spark Plug	(8)
150A639	Ball Joint Governor	(1)
110B1223	Gasket Head	(2)
115B130	Gasket Valve Cover	(2)
143K241	Repair Kit Carburetor	(1)
123A458	Cap Breather	(1)
214A59	AC Brush	(4)
149K875	Repair Kit Fuel Pump	(1)

SPARE PARTS
FOR F279-1020-1A
(Cont'd.)

REFRIGERATION UNIT-VENT SYSTEM

		Price Ea.
10F1/4	Single Phase 60 cycle Solenoid Valve	(2)
C162	Dryer	(4)
GF1/2C	(1/4 F in. x 1/2F-out) Expansion Valve	(2)

TEST STAND - PPB TO FOLLOW

PILOT CONSOLE PPB TO FOLLOW

ELECTRICAL

312005	Little Fuse - 5 amp.	(1)
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GRAND TOTAL

DATED: / Feb. 12, 1965